FOCUSED SITE INSPECTION PRIORITIZATION
ENCLOSURES 1 AND 2

SERVICE DISPOSAL NO. 1
JUNCTION STATE ROUTE 316 AND LOXA ROAD
MATTOON, ILLINOIS

CERCLIS ID NO.: ILD980901433

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SITE ASSESSMENT SECTION
77 West Jackson Boulevard
Chicago, Illinois 60604

Date Prepared:	September 29, 1995
U.S. EPA Region:	5
Contract No.:	68-W0-0037
Technical Direction Document No.:	T05-9503-230
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CONFIDENTIAL

ENCLOSURE 1

U.S. ENVIRONMENTAL PROTECTION AGENCY
RECOMMENDATION FOR
SERVICE DISPOSAL NO. 1
CERCLIS ID NO.: ILD980901433

U.S. ENVIRONMENTAL PROTECTION AGENCY RECOMMENDATION

Site Name:	Service Disposal No. 1 Mattoon, Coles County, Illinois
CERCLIS ID No.:	ILD980901433
Report Author:	Chad Eich Ecology and Environment, Inc. 716/684-8060
Program Leader:	Steven Skare Ecology and Environment, Inc. 312/663-9415

U.S. EPA RECOMMENDATION	SIGNATURE	DATE
"H": High priority for further site assessment		
"L": Low priority for further site assessment	Sonia M. Vega	9/29/95
"D": Deferred to other authority (RCRA, TSCA, OR NRC)		
"N": No further action		

U.S. EPA COMMENTS:

Under SF authority

ENCLOSURE 2

TRANSMITTAL MEMORANDUM
WITH HRS SCORESHEETS
FOR
SERVICE DISPOSAL NO. 1
MATTOON, ILLINOIS

MEMORANDUM

DATE: September 29, 1995

TO: Sonia Vega, U.S. EPA

FROM: Chad Eich, E & E

SUBJECT: Focused Site Inspection Prioritization (FSIP)
Site Name: Service Disposal No. 1
Location: Mattoon, Illinois
CERCLIS ID No.: ILD980901433

THIS DOCUMENT IS CONFIDENTIAL. Because of its predecisional nature, this memorandum and the attached preliminary Hazard Ranking System (HRS) scoresheets are not to be released to the public.

The FSIP Site Evaluation Report (SER) accompanies this transmittal memorandum and the preliminary HRS scoresheets.

The site has been evaluated to determine the need for immediate removal action as a result of a substantial threat to human health and the environment. E & E recommends the following:

_ The site **does** present a threat that requires immediate removal action.

X The site **does not** present a threat that requires immediate removal action.

E & E has prepared the attached preliminary HRS site scoresheets for the above-referenced site.

X The preliminary HRS score is **below** 28.50.

_ The preliminary HRS score is **above** 28.50.

The following is a summary of factors affecting the preliminary HRS pathway scores.

WASTE CHARACTERISTICS

The waste characteristics value includes the following factors: hazardous waste quantity, toxicity, and as appropriate to the pathway being evaluated, mobility, persistence, and/or bioaccumulation potential.

The Service Disposal No. 1 (SD1) site is currently a closed and covered landfill. The site has been inactive since 1982. Surface soil, sediment, surface water, and groundwater samples have been collected and analyzed for Target Compound List (TCL) and Target Analyte List (TAL) chemicals by the Illinois Environmental Protection Agency (IEPA). Soil samples collected from the site have shown levels of TCL/TAL chemicals including 2-methylphenol, acetone, phenol, and lead.

A hazardous waste quantity value of 100 was obtained based on the area of the landfill, which was estimated to be 1,742,400 square feet, and the hazardous substances detected in the soil samples.

GROUNDWATER MIGRATION PATHWAY

A release of hazardous substances from the SD1 site to the groundwater has not been conclusively documented. There is no documentation of on-site hazardous waste disposal or mismanagement. No monitoring wells exist on site. A monitoring well located south of the site, on Western Lion Landfill property, showed levels of benzene, phenol, 2-chlorophenol, and mercury. No background samples were collected. The approximately 1,171 residents living within a 4-mile radius of the site obtain drinking water from private groundwater wells. Of these wells, the closest is located approximately 1,800 feet south of the SD1 site. The Western Lion Landfill lies between the SD1 site and the nearest drinking water well. The wells are reportedly between 40 to 100 feet deep and draw water from the sand and gravel aquifer.

SURFACE WATER MIGRATION PATHWAY

A release of hazardous substances to surface water is likely to have occurred. Leachate has been observed entering Riley Creek from the site on several occasions. Riley Creek flows through the middle of the SD1 site and separates the eastern disposal area from the western disposal area. A fish kill that occurred in Riley Creek in 1979 was attributed to the pumping of leachate from the SD1 site into the creek. Analysis of sediment samples collected from Riley Creek by IEPA during the 1988 SSI detected levels TCL compounds including toluene, total xylenes, and 2-methylphenol. Surface water samples collected from Riley Creek did not exceed Illinois groundwater standards. The only organic compound found above the detection limit was acetone. Acetone was detected in both the upstream and downstream samples. Riley Creek flows in an easterly direction from the site to Kickapoo Creek located approximately 7.5 miles southeast of the site. Kickapoo Creek flows approximately 4.25 miles to the Wabash River. There are no engineered structures currently in place at the SD1 site that would preclude leachate from entering Riley Creek.

The site is located within the 100-year floodplain of Riley Creek. No wetlands, sensitive environments, or drinking water intakes are known to exist along Riley Creek, Kickapoo Creek, or the Wabash River.

SOIL EXPOSURE PATHWAY

Leachate stained soils were observed during the 1995 FSIP site reconnaissance inspection. Soil samples collected from the site have shown levels of TCL/TAL chemicals including 2-methylphenol, acetone, phenol, and lead. The SD1 site is not totally fenced; therefore, site access is not restricted. Signs of recreational use of the site were observed during the 1995 FSIP site reconnaissance. The nearest residence is located approximately 1,800 feet south of the site. Approximately 65 persons live within a 1-mile radius of the SD1 site based on straight-line distances. There are no schools or daycare facilities located within 200 feet of the site.

AIR MIGRATION PATHWAY

A release of hazardous substances to the air has not been documented. Air monitoring conducted with an Organic Vapor Analyzer (OVA) during the FSIP site reconnaissance did not reveal any airborne contaminants above background concentrations in the breathing zone. A reading of 4 ppm was elicited on the OVA at the face of a leachate seep. The site is inactive, and no workers are currently employed at the site. No records of complaints regarding odors are known to exist. Approximately 1,171 persons live within a 4-mile radius of the SD1 site. No sensitive environments that could potentially be affected by releases from the site are located within 4 miles of the site.

NPL Characteristics Data Collection Form
Service Disposal #1 - 08/11/95

Record Information

1. Site Name: Service Disposal #1
   (as entered in CERCLIS)

2. Site CERCLIS Number: ILD980901433

3. Site Reviewer: Ecology and Environment, Inc.

4. Date: 7/27/95

5. Site Location: Mattoon/Coles, Illinois
   (City/County,State)

6. Congressional District: 22

7. Site Coordinates: Multiple

   Latitude: 39°31'10. Longitude: 088°16'45.

Site Description

1. Setting: Rural

2. Current Owner: Private - Industrial

3. Current Site Status: Inactive

4. Years of Operation: Inactive Site,from and to dates: 1966 to 1982

5. How Initially Identified: State/Local Program

6. Entity Responsible for Waste Generation:

   - Other - General Refuse

7. Site Activities/Waste Deposition:

   - Municipal Landfill

Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Solvents
- Pesticides/Herbicides
- Metals
- POTW Sludge Waste
- Municipal Waste

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

    - Not Applicable

Demographic Information

11. Workers Present Onsite: No

12. Distance to Nearest Non-Worker Individual: > 1/4 - 1/2 Mile

13. Residential Population Within 1 Mile: 65.0

14. Residential Population Within 4 Miles: 1171.0

Water Use Information

15. Local Drinking Water Supply Source:

    - Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 1171.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

    - Private

18. Surface Water Adjacent to/Draining Site:

- Stream
- River

HRS DOCUMENTATION RECORD
Service Disposal #1 - 08/11/95

1. Site Name: Service Disposal #1
   (as entered in CERCLIS)

2. Site CERCLIS Number: ILD980901433

3. Site Reviewer: Ecology and Environment, Inc.

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   (City/County,State)

6. Congressional District: 22

7. Site Coordinates: Multiple

   Latitude: 39°31'10. Longitude: 088°16'45.

	Score
Ground Water Migration Pathway Score (Sgw)	8.53
Surface Water Migration Pathway Score (Ssw)	3.20
Soil Exposure Pathway Score (Ss)	0.00
Air Migration Pathway Score (Sa)	0.00

Site Score	4.56

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

GROUND WATER MIGRATION PATHWAY SCORESHEET
Service Disposal #1 - 08/11/95

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Sand and Gravel		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	32
Targets		
7. Nearest Well	50	1.80E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.70E+01
8d. Population (lines 8a+8b+8c)	**	1.70E+01
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	4.00E+01
12. Targets (including overlaying aquifers)	**	4.00E+01
13. Aquifer Score	100	8.53
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	8.53

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	260
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	25
3c. Potential to Release by Flood (lines 3a x 3b)	500	250
4. Potential to Release (lines 2d+3c)	500	500
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	4.00E+00
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	3
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	0.10

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	2.00E+02
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	10
Targets		
18. Food Chain Individual	50	2.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	6.30E-04
19d. Population (lines 19a+19b+19c)	**	6.30E-04
20. Targets (lines 18+19d)	**	2.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.13

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	* * 1000	5.00E+04 100 32
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	 ** ** ** ** **	 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.23
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.23

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Sand and Gravel		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	1.00E+04
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	32
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	1.07

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	5.00E+08
14. Hazardous Waste Quantity	*	100
15. Waste Characteristics	1000	320
Targets		
16. Food Chain Individual	50	1.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	3.15E-04
17d. Population (lines 17a+17b+17c)	**	3.15E-04
18. Targets (lines 16+17d)	**	1.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	2.13

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Service Disposal #1 - 08/11/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	5.00E+08
22. Hazardous Waste Quantity	*	100
23. Waste Characteristics	1000	320
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	3.20
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	3.20

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Service Disposal #1 - 08/11/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+02
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	6
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	0.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Service Disposal #1 - 08/11/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	5.00E+01
13. Area of Contamination	100	1.00E+02
14. Likelihood of Exposure	500	3.75E+02
Waste Characteristics		
15. Toxicity	*	1.00E+02
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	6
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	5.00E-02
20. Targets (lines 18+19)	**	5.00E-02
21. NEARBY POPULATION THREAT SCORE	**	1.12E+02
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Service Disposal #1 - 08/11/95

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	0
2c. Potential to Release	500	0
3. Likelihood of Release	550	0
Waste Characteristics		
4. Toxicity/Mobility	*	0.00E+00
5. Hazardous Waste Quantity	*	0
6. Waste Characteristics	100	0
Targets		
7. Nearest Individual	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	0.00E+00
10c. Sens. Environments(lines 10a+10b)	***	0.00E+00
11. Targets (lines 7+8d+9+10c)	**	0.00E+00
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: LANDFILL

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		LANDFILL	
b. Source Type		Landfill	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	1742400.00
e. Source Volume/Area Value		5.12E+02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		5.12E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Acetone	< 2	YES	5.7E-01	ppm
Cresol, p-	< 2	NO	3.0E+00	ppm
Phenol	< 2	YES	7.4E-01	ppm

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	LANDFILL	GW-SW-SE	5.12E+02	0.00E+00	5.12E+02

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+04	100	32
SW: Overland Flow, DW	Tox./Persistence	4.00E+00	100	3
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	2.00E+02	100	10
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+04	100	32
SW: GW to SW, DW	Tox./Persistence	1.00E+04	100	32
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
Soil Exposure:Resident	Toxicity	1.00E+02	10	6
Soil Exposure: Nearby	Toxicity	1.00E+02	10	6
Air	Toxicity/Mobility	0.00E+00	0	0

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER PATHWAY AQUIFER SUMMARY
Service Disposal #1 - 08/11/95

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	Sand and Gravel	Non K	0	0	550	4.00E+01

Containment

No.	Source ID	HWQ Value	Containment Value
1	LANDFILL	5.12E+02	10
	Containment Factor		10

Net Precipitation

Net Precipitation (inches)	N.A.

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Sand and Gravel AQUIFER
Service Disposal #1 - 08/11/95

Aquifer: Sand and Gravel

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination
1	G110	Monitoring Well	0.000	Level I

Well No.	Hazardous Substance	Concent.	MCL	Cancer	RFD	Units
1	Arsenic	2.0E+01	5.0E+01	2.0E-02	1.1E+01	ppb
1	Chloro-3-methylphenol, 4-	7.8E+01	0.0E+00	0.0E+00	7.0E+04	ppb
1	Chlorophenol, 2-	7.1E+01	0.0E+00	0.0E+00	1.8E+02	ppb
1	Mercury	3.0E-01	2.0E+00	0.0E+00	1.1E+01	ppb
1	Phenol	3.9E+01	0.0E+00	0.0E+00	2.1E+04	ppb

Observed Release Factor 550

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	3	

Depth to Aquifer

A. Depth of Hazardous Substances	47.00	feet

Documentation for Depth of Hazardous Substances:

Assumption. Permit states that fill will be kept at a minimum of 3 feet above the water table

Reference:

B. Depth to Aquifer from Surface	50.00	feet
C. Depth to Aquifer (B - A)	3.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	3.00	feet
Hydraulic Conductivity (cm/sec)	1.0E-05	

Travel Time Factor	35

==========

Potential to Release Factor	430

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Acetone	10	1.00E+00	1.00E+01
Cresol, p-	100	1.00E-02	1.00E+00
Phenol	1	1.00E+00	1.00E+00

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
1	Arsenic	10000	1.00E+00	1.00E+04
1	Chloro-3-methylphenol, 4-	1	1.00E+00	1.00E+00
1	Chlorophenol, 2-	100	1.00E+00	1.00E+02
1	Mercury	10000	1.00E+00	1.00E+04
1	Phenol	1	1.00E+00	1.00E+00

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+01
Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+04
Toxicity/Mobility Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	19.0	1.10E+00
> 1/2 to 1	46.0	1.70E+00
> 1 to 2	229.0	3.00E+00
> 2 to 3	347.0	6.80E+00
> 3 to 4	530.0	4.20E+00

Potential Contamination Factor: 17.000

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.30

Nearest Well Factor: 1.80E+01

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

SURFACE WATER PATHWAY SEGMENT SUMMARY
Service Disposal #1 - 08/11/95

No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	Riley Creek	River	Fresh	0.00	7.50	25
2	Kickapoo Creek	River	Fresh	7.50	11.75	50
3	Wabash River	River	Fresh	11.75	15.00	101

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Service Disposal #1 - 08/11/95

OBSERVED RELEASE

No.	Sample ID	Sample Type	Distance (miles)	Level of Contamination DW	HFC	Env
1	S102	Sediment	0.000	Level II	Potential	Level II

Sample No.	Hazardous Substance	Concent.	Units
1	Toluene	5.0E+00	ppb
1	Xylene, o-	2.0E+00	ppb

Observed Release Factor 550

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Service Disposal #1 - 08/11/95

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	LANDFILL	5.12E+02	10

==========

Containment Factor: 10

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Service Disposal #1 - 08/11/95

Distance to Surface Water

Distance to Surface Water:	0.0 feet
Distance to Surface Water Factor:	25

Runoff

A. Drainage Area:	40.0 acres
B. 2-year, 24-hour Rainfall:	2.5 inches
C. Soil Group: Moderately-fine textured soils with low infiltration rates	C
Runoff Factor:	1

==========

Potential to Release by Overland Flow Factor:	260

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Service Disposal #1 - 08/11/95

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
1	LANDFILL	5.12E+02	10	25	250

==========

Potential to Release by Flood Factor: 250

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Acetone	10	7.00E-04	7.00E-03
Cresol, p-	100	7.00E-04	7.00E-02
Phenol	1	1.00E+00	1.00E+00

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
1	Toluene	10	4.00E-01	4.00E+00
1	Xylene, o-	1	4.00E-01	4.00E-01

Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+00
Toxicity/Persistence Value from Observed Release Hazardous Substances:	4.00E+00
Toxicity/Persistence Factor:	4.00E+00
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	3

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Service Disposal #1 - 08/11/95

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: S102
Sample Medium: Sediment
Location: 0.00 miles

Hazardous Substance	Hazardous Substance Concentration	DW MCL Benchmark Concentration	Units
Toluene	5.0E+00	N.A.	ppb
Xylene, o-	2.0E+00	N.A.	ppb

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: S102
Distance from the Probable Point of Entry: 0.00 miles

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population

- N/A and/or data not specified

==========

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Service Disposal #1 - 08/11/95

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Service Disposal #1 - 08/11/95

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Acetone	10	7.00E-04	5.00E-01	3.50E-03
Arsenic	10000	1.00E+00	5.00E+00	5.00E+04
Chloro-3-methylphenol, 4-	1	1.00E+00	5.00E+01	5.00E+01
Chlorophenol, 2-	100	4.00E-01	5.00E+02	2.00E+04
Cresol, p-	100	7.00E-04	5.00E+00	3.50E-01
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenol	1	1.00E+00	5.00E+00	5.00E+00

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
1	Toluene	10	4.00E-01	5.00E+01	2.00E+02
1	Xylene, o-	1	4.00E-01	5.00E+01	2.00E+01

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+00
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	2.00E+02
Toxicity/Persistence/Bioaccumulation Factor:	2.00E+02
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Riley Creek	1.0	River	25	0.0	1.00E-01	3.00E-03
2 Kickapoo Creek	1.0	River	50	0.0	1.00E-01	3.00E-03
3 Wabash River	1.0	River	101	0.0	1.00E-02	3.00E-04

Sum of (Pi*Di): 6.30E-03

Potential Human Food Chain Contamination Factor: 6.30E-04

Food Chain Individual

Location of Nearest Fishery: Riley Creek
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.1000000
Level of Contamination: Potential

Food Chain Individual Factor: 2.00

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Acetone	100	7.00E-04	5.00E-01	3.50E-02
Arsenic	10	1.00E+00	5.00E+01	5.00E+02
Chloro-3-methylphenol, 4-	100	1.00E+00	5.00E+01	5.00E+03
Chlorophenol, 2-	100	4.00E-01	5.00E+02	2.00E+04
Cresol, p-	100	7.00E-04	5.00E+00	3.50E-01
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenol	10000	1.00E+00	5.00E+00	5.00E+04

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
1	Toluene	100	4.00E-01	5.00E+01	2.00E+03
1	Xylene, o-	100	4.00E-01	5.00E+01	2.00E+03

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	5.00E+04
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	2.00E+03
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: S102
Sample Medium: Sediment
Location: 0.00 miles

Hazardous Substance	Hazardous Substance Concentration	AWQC Benchmarks Concentrations FRESH	SALT	Units
Toluene	5.0E+00		N.A.	ppb
Xylene, o-	2.0E+00		N.A.	ppb

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: S102
Distance from the Probable Point of Entry: 0.00 miles

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

==========

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Service Disposal #1 - 08/11/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)

- N/A and/or data not specified

Sum of Dj(Wj+Sj): 0.00E+00
Sum of Dj(Wj+Sj)/10: 0.00E+00

Potential Contamination Sensitive Environment Factor: 0.00E+00

SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY
Service Disposal #1 - 08/11/95

Containment

No.	Source ID	HWQ Value	Containment Value
1	LANDFILL	5.12E+02	10
	Containment Factor		10

Net Precipitation

Net Precipitation (inches)	0.00

Aquifer: Sand and Gravel

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination
1	G110	Monitoring Well	0.000	Level I

Well No.	Hazardous Substance	Concent.	MCL	Cancer	RFD	Units
1	Arsenic	2.0E+01	5.0E+01	2.0E-02	1.1E+01	ppb
1	Chloro-3-methylphenol, 4-	7.8E+01	0.0E+00	0.0E+00	7.0E+04	ppb
1	Chlorophenol, 2-	7.1E+01	0.0E+00	0.0E+00	1.8E+02	ppb
1	Mercury	3.0E-01	2.0E+00	0.0E+00	1.1E+01	ppb
1	Phenol	3.9E+01	0.0E+00	0.0E+00	2.1E+04	ppb

Observed Release Factor 550

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	0.00	miles
Angle Theta	180	

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	3	

Depth to Aquifer

A. Depth of Hazardous Substances	47.00	feet

Documentation for Depth of Hazardous Substances:

Assumption. Permit states that fill will be kept at a minimum of 3 feet above the water table

Reference:

B. Depth to Aquifer from Surface	50.00	feet
C. Depth to Aquifer (B - A)	3.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	3.00	feet
Hydraulic Conductivity (cm/sec)	1.0E-05	
Travel Time Factor	35	

Potential to Release Factor 430

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Acetone	10	7.00E-04	1.00E+00	7.00E-03
Cresol, p-	100	7.00E-04	1.00E-02	7.00E-04
Phenol	1	1.00E+00	1.00E+00	1.00E+00

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence
Arsenic	10000	1.00E+00	1.00E+04
Chloro-3-methylphenol, 4-	1	1.00E+00	1.00E+00
Chlorophenol, 2-	100	4.00E-01	4.00E+01
Mercury	10000	1.00E+00	1.00E+04
Phenol	1	1.00E+00	1.00E+00

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	1.00E+00
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	1.00E+04
Toxicity/Mobility/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population

- N/A and/or data not specified

==========

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio-accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Acetone	10	7.00E-04	1.00E+00	5.00E-01	3.50E-03
Arsenic	10000	1.00E+00	1.00E-02	5.00E+00	5.00E+02
Chloro-3-methylphenol, 4-	1	1.00E+00	1.00E-02	5.00E+01	5.00E-01
Chlorophenol, 2-	100	4.00E-01	1.00E-02	5.00E+02	2.00E+02
Cresol, p-	100	7.00E-04	1.00E-02	5.00E+00	3.50E-03
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
Phenol	1	1.00E+00	1.00E+00	5.00E+00	5.00E+00

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio-accum. Value	Toxicity/ Persistence Bioaccum. Value
Arsenic	10000	1.00E+00	5.00E+00	5.00E+04
Chloro-3-methylphenol, 4-	1	1.00E+00	5.00E+01	5.00E+01
Chlorophenol, 2-	100	4.00E-01	5.00E+02	2.00E+04
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenol	1	1.00E+00	5.00E+00	5.00E+00

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+00
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	5.00E+08
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value

- N/A and/or data not specified

==========

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value

- N/A and/or data not specified

==========

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Riley Creek	1.0	River	25	0.0	5.00E-02	1.50E-03
2 Kickapoo Creek	1.0	River	50	0.0	5.00E-02	1.50E-03
3 Wabash River	1.0	River	101	0.0	5.00E-03	1.50E-04

Sum of (Pi*Di): 3.15E-03

Potential Human Food Chain Contamination Factor: 3.15E-04

Food Chain Individual

Location of Nearest Fishery: Riley Creek
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.0500000
Level of Contamination: Potential

Food Chain Individual Factor: 2.00

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 512.47

Hazardous Substance	Eco-toxicity Value	Persist. Value	Mob. Value	Bio-accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Acetone	100	7.00E-04	1.00E+00	5.00E-01	3.50E-02
Arsenic	10	1.00E+00	1.00E-02	5.00E+01	5.00E+00
Chloro-3-methylphenol, 4-	100	1.00E+00	1.00E-02	5.00E+01	5.00E+01
Chlorophenol, 2-	100	4.00E-01	1.00E-02	5.00E+02	2.00E+02
Cresol, p-	100	7.00E-04	1.00E-02	5.00E+00	3.50E-03
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
Phenol	10000	1.00E+00	1.00E+00	5.00E+00	5.00E+04

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco-toxicity Value	Persist. Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Arsenic	10	1.00E+00	5.00E+01	5.00E+02
Chloro-3-methylphenol, 4-	100	1.00E+00	5.00E+01	5.00E+03
Chlorophenol, 2-	100	4.00E-01	5.00E+02	2.00E+04
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Phenol	10000	1.00E+00	5.00E+00	5.00E+04

Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	5.00E+04
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	5.00E+08
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.12E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

==========

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
Service Disposal #1 - 08/11/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
- N/A and/or data not specified				

Sum of Dj(Wj+Sj): 0.00E+00
Sum of Dj(Wj+Sj)/10: 0.00E+00

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Potential Contamination Sensitive Environment Factor: 0.00E+00

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Service Disposal #1 - 08/11/95

Likelihood of Exposure

No.	Source ID	Level of Contamination
1	LANDFILL	Level II

Likelihood of Exposure Factor: 550

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Acetone	< 2	5.7E-01	0.0E+00	5.8E+04	ppm
1	Cresol, p-	< 2	3.0E+00	0.0E+00	2.9E+03	ppm
1	Phenol	< 2	7.4E-01	0.0E+00	3.5E+05	ppm

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 51.25

Hazardous Substance	Toxicity Value
Acetone	10
Cresol, p-	100
Phenol	1

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Toxicity Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	5.12E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	6

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
Service Disposal #1 - 08/11/95

Targets

Level I Population:	0.0	Value:	0.00
Level II Population:	0.0	Value:	0.00
Workers:	0.0	Value:	0.00
Resident Individual:	Potentia	Value:	0.00
Resources:	NO	Value:	0.00

Terrestial Sensitive Environment	Value
- N/A and/or data not specified	

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Terrestrial Sensitive Environments Factor: 0.00

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Service Disposal #1 - 08/11/95

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
1	LANDFILL	Level II	50	1742400

Highest Attractiveness/Accessibility Value: 50
Sum of Eligible Areas Of Contamination (sq. feet): 1742400
Area of Contamination Value: 100

Likelihood of Exposure Factor Category: 375

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Acetone	< 2	5.7E-01	0.0E+00	5.8E+04	ppm
1	Cresol, p-	< 2	3.0E+00	0.0E+00	2.9E+03	ppm
1	Phenol	< 2	7.4E-01	0.0E+00	3.5E+05	ppm

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Source: 1 LANDFILL

Source Hazardous Waste Quantity Value: 51.25

Hazardous Substance	Toxicity Value
Acetone	10
Cresol, p-	100
Phenol	1

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Toxicity Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	5.12E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	6

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS
Service Disposal #1 - 08/11/95

Nearby Individual

Population within 1/4 mile: 0.0

Nearby Individual Value: 0.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	0.0	0.0
> 1/4 to 1/2 mile	19.0	0.0
> 1/2 to 1 mile	46.0	0.0

Population Within 1 Mile Factor: 0.1

OBSERVED RELEASE

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

==========

Observed Release Factor: 0

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
- N/A and/or data not specified						

Gas Potential to Release Factor: 0

Source: LANDFILL

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Acetone	17
Cresol, p-	11
Phenol	11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 13.000

Gas Migration Potential Value From Table 6-7: 11

AIR PATHWAY LIKELIHOOD OF RELEASE
Service Disposal #1 - 08/11/95

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
- N/A and/or data not specified						

Particulate Potential to Release Factor: 0

Source: LANDFILL

Particulate Hazardous Substance

AIR PATHWAY WASTE CHARACTERISTICS
Service Disposal #1 - 08/11/95

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value

Hazardous Substances Found in an Observed Release

Sample ID	Observed Release Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value

- N/A and/or data not specified

- N/A and/or data not specified

Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	0.00E+00
Hazardous Waste Quantity Factor:	0
Waste Characteristics Factor Category:	0

AIR PATHWAY TARGETS

Service Disposal #1 - 08/11/95

Actual Contamination

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Potential Contamination

Distance Categories Subject to Potential Contamination	Population	Value
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000
	Potential Contaminantion Factor:	0.0000

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Nearest Individual Factor

Distance in miles: Potentia

- N/A and/or data not specified

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Resources

Resource Value: 4.935386701663272590000000000000000000000e+257

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Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value

- N/A and/or data not specified

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value

- N/A and/or data not specified

==========

(Sum of Sensitive Environments + Wetlands Values)

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
(null)	4.935385843404746150000000000000000000000e+257			

Sum of Sensitive Environments Weighted Values/10: 0.000

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10

- N/A and/or data not specified

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